

WHAT IS CLAIMED IS:

1. A timing adjusting apparatus comprising:

5 an AD converter for receiving an input signal of which input signal level is converted into a digital signal to generate a digitized input signal; and

10 a counter circuit to which the digitized input signal, a counter clock signal and a trigger signal are provided so as to set a count number based on the digitized input signal and start counting the counter clock signal in response to the trigger signal, wherein an output signal is generated from the counter circuit at the timing of the counter clock signal reaching the count number.

15 2. The timing adjusting apparatus according to claim 1, wherein the digitized input signal is set as the count number when the trigger signal is input.

20 3. The timing adjusting apparatus according to claim 1 or 2, wherein said AD converter is further comprising:

a binary-coded N-bit output counter for counting an input clock signal and carrying out a count operation repeatedly;

25 a DA converter for converting an N-bit output signal of the binary-coded N-bit output counter into a counter analog signal, and outputting the counter analog signal;

a comparator for comparing the input signal with the counter analog signal to output a comparison output signal; and

30 a latch circuit for inputting the N-bit output signal as data, latching the N-bit output signal, and outputting the latched N-bit output signal as the digitized input signal in accordance with a change of the comparison output signal.

35 4. The timing adjusting apparatus according to claim 3, wherein the counter clock signal is selected from one of the N-bit output signals.